

AMENDMENTS TO THE DRAWINGS

The attached sheets of Drawings include changes to Figs. 1A, 2, and 4-9. These sheets, which include Figs. 1A, 2, and 4-9, replace the original sheets including those Figs. In Fig. 1A, a typographic error is removed, such that the legend correctly reads "PRIOR ART." In each of the Figs. 2 and 4-9, the load R1, R2 is textually labeled as such.

Attachments: Replacement Sheets (5)

REMARKS/ARGUMENTS

This case has been carefully reviewed and analyzed in view of the Office Action dated 9 March 2006. Responsive to that Office Action, Claims 5 and 9 are canceled, and Claims 1-2, 6, and 8 are amended, with Claims 11-12 being newly inserted for further prosecution with the other pending Claims. It is believed that with such amendment and insertion of Claims, there is a further clarification of their recitations.

In the Office Action, the Examiner objected to Figs. 2 and 4-9 for omitting the label "LOAD" for the boxes marked R1 (and R2) therein. Accordingly, each of the Figs. in question is now amended to include this label. Additionally, an incidentally noted typographic error in the legend for Fig. 1A is hereby corrected by amendment.

The Examiner also objected to the Drawings under 37 C.F.R. § 1.83(a) for not showing the feature of a saturable reactor and transformer being replaced with a saturable transformer as recited in Claims 5 and 9. Claims 5 and 9 are now canceled from this case; however, newly-inserted Claims 11 and 12 each more clearly recite "a saturable transformer." To the Extent that the Examiner's objection was based upon imprecise and unclear wording in Claims 5 and 9, it is believed that the objection is obviated by this cancellation and insertion of Claims. Otherwise, the inclusion of a saturable transformer is indicated in the Drawings by the broken line boxes T2 (Figs. 5 and 7) and T4 (Figs. 8 and 9), supported by the Disclosure, for instance, at page 7, lines 22-23 and page 11, lines 5-6.

Also in the Office Action, the Examiner objected to the Title for not being sufficiently descriptive. Accordingly, the Title is hereby replaced with the new Title "ZERO VOLTAGE SWITCHING POWER CONVERSION CIRCUIT."

The Examiner objected to Claims 1-9 for including the phrases “can” and “can be” which render them vague and indefinite. The Examiner also noted a lack of antecedent basis for certain recitations, and stated that the wording in Claims 5 and 9 to replace a previously recited element is improper. It is believed that the amendments incorporated into the Claims now obviate these formal concerns.

The Examiner rejected Claims 6-9 under 35 U.S.C. § 102(b) as being anticipated by the Onda, et al. reference. In setting forth this rejection, the Examiner cited Onda, et al.’s use of saturable reactors Lm1 or Lm2.

As newly-amended independent Claim 6 now more clearly recites, the switching power conversion circuit of that Claim includes among its combination of features a transformer having first and second primary coils and a secondary coil connected to a load. The circuit also includes among its combination of features “a saturable reactor connected across at least one of said coils of said transformer,” as Claim 6 also now more clearly recites. Newly-inserted Claim 12 which reflects in part the subject matter of Claim 9 recites the incorporation of “a saturable transformer.”

The full combination of these and other features now more clearly recited by Claim 6-8 and 12 are nowhere disclosed by the cited Onda, et al. reference. Note in this regard that the saturable reactors Lm1, Lm2 shown in Onda, et al.’s embodiment of Fig. 7 respectively extend from opposing terminals of the transformer windings n_{21} and n_{22} . Each of the saturable reactors Lm1, Lm2 then connects to other circuit components. Consequently, Onda, et al. nowhere discloses those reactors Lm1, Lm2 to be “connected across at least one of said coils of said transformer,” as newly-amended independent Claim 6 now more clearly recites. Nor does either of these devices Lm1, Lm2 constitute

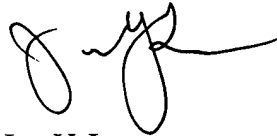
MR2349-980
Serial Number: 10/753,428
Reply to Office Action dated 9 March 2006

“a saturable transformer” recited by Claim 12.

It is respectfully submitted, therefore, that the cited Onda, et al. reference fails to disclose the unique combination of elements now more clearly recited by Claims 6-8 and 12 for the purposes and objectives disclosed in the subject Patent Application. The other references cited by the Examiner but not used in the rejection are believed to be further remote from Applicant's power conversion circuit when patentability considerations are taken properly into account.

It is now believed that the subject Patent Application has been placed fully in condition for allowance, and such action is respectfully requested.

Respectfully submitted,
For: ROSENBERG, KLEIN & LEE

A handwritten signature in black ink, appearing to read 'Jun Y. Lee', with a stylized flourish extending to the right.

Jun Y. Lee
Registration #40,262

Dated: 8/8/2006

Suite 101
3458 Ellicott Center Drive
Ellicott City, MD 21043
(410) 465-6678
Customer No. 04586